

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

CAI et al.

Appl. No.: 10/572,910

§ 371 Date: March 21, 2006

For: Substituted 2-Arylmethylene-N-aryl-N'-aryl-malonamides and

Analogs as Activators of Caspases

and Inducers of Apoptosis

Confirmation No.: 4626

Art Unit: 1614

Examiner: Weddington, Kevin E.

Atty. Docket: 1735.0930001/RWE/BSA

Information Disclosure Statement

Mail Stop Amendment

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

Listed on accompanying IDS Forms are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. Copies of documents FP1 and NPL1-NPL38 are submitted. However, in accordance with 37 C.F.R. § 1.98(a)(2), no copies of U.S. patents and patent application publications cited on the attached IDS Forms are submitted.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached IDS Forms based on information presently available to the undersigned. However, the listed publication

dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being filed within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application or before the mailing date of a first Office Action on the merits. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed IDS Forms, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Robert W. Esmond

Attorney for Applicants Registration No. 32,893

Date: July 26, 2007

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Substitute 1949/PTO	Complete if Known		
	Application Number	10/572,910	
INFORMATION DISCLOSURE	§ 371 Date	March 21, 2006	
STATEMENT BY APPLICANT	First Named Inventor	Sui Xiong CAI	
(Use as many sheets as necessary)	Art Unit	1614	
(Examiner Name	Weddington, Kevin E.	
Sheet 1 of 1	Attorney Docket Number	1735.0930001/RWE/BSA	

			U.S. PATENT DO	CUMENTS	
Examiner Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines,	
Initials [*]	S No. Number-Kind Code ^{2 (If Known)}	MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	
/ZV/	US1	4,634,777	01-06-1987	Satoh et al.	
/ZV/	US2	6,335,429 B1	01-01-2002	Cai et al.	
	US3				
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Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ³ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T⁵
/ZV/	FPI	WO 96/20721	07-11-1996	The General Hospital Corporation		
	FP2					
	FP3					
	FP4					
	FP5					
	FP6					
	FP7					
	FP8					
	FP9					

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Examiner	(***	Date	/Zohreh Vakili/ (10/16/2007)
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Substitute for	form 1449/PT	О		Con	Complete if Known			
				Application Number	10/572,910			
INFORMATION DISCLOSURE			LOSURE	§ 371 Date	March 21, 2006			
STATEM	STATEMENT BY APPLICANT (Use as many sheets as necessary)		First Named Inventor	Sui Xiong CAI				
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		Examiner Name	Weddington, Kevin E.					
Sheet	1	of	4	Attorney Docket Number	1735.0930001/RWE/BSA			

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
/ZV/	NPL1	Adjei, A.A. et al., "Synergy of the Protein Farnesyltransferase Inhibitor SCH66336 and Cisplatin in Human Cancer Cell Lines," Clin. Cancer Res. 7:1438-1445, American Association for Cancer Research, Inc. (2001)	
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Examiner	(7-1-1-14-19) (40/40/0007)	Date	/Zohreh Vakili/ (10/16/2007)
Signature	/Zohreh Vakili/ (10/16/2007)	Considered	/Zohreh Vakili/ (10/16/2007)

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STATEMENT BY APPLICANT	First Named Inventor	Sui Xiong CAI			
(Use as many sheets as necessary)	Art Unit	1614			
	Examiner Name	Weddington, Kevin E.			
Sheet 2 of 4	Attorney Docket Number	1735.0930001/RWE/BSA			

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T²
/ZV/	NPL11	Giermasz, A. et al., "Potentiating Antitumor Effects of a Combination Therapy with Lovastatin and Butyrate in the Lewis Lung Carcinoma Model in Mice," Int. J. Cancer 97:746-750, Wiley-Liss, Inc. (February 2002)	
/ZV/	NPL12	Heenen, M. et al., "Methotrexate induces apoptotic cell death in human keratinocytes," Arch. Dermatol. Res. 290:240-245, Springer-Verlag (1998)	
/ZV/	NPL13	Infante, A.J. et al., "The clinical spectrum in a large kindred with autoimmune lymphoproliferative syndrome caused by a Fas mutation that impairs lymphocyte apoptosis," J. Pediatr. 133:629-633, Mosby, Inc. (1998)	
/ZV/	NPL14	Kalemkerian, G.P. and Ou, X., "Activity of fenretinide plus chemotherapeutic agents in small-cell lung cancer cell lines," <i>Cancer Chemother. Pharmacol.</i> 43:145-150, Springer-Verlag (1999)	
/ZV/	NPL15	Kelland, L.R. et al., "Preclinical Antitumor Activity and Pharmacodynamic Studies with the Farnesyl Protein Transferase Inhibitor R115777 in Human Breast Cancer," Clin. Cancer Res. 7:3544-3550, American Association for Cancer Research, Inc. (2001)	
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Examiner	(Zahrah Makili) (40/40/0007)	Date	(7)-1
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/ZV/	NPL21	Ohsako, S. and Elkon, K.B., "Apoptosis in the effector phase of autoimmune diabetes, multiple sclerosis and thyroiditis," <i>Cell Death Differ.</i> 6:13-21, Nature Publishing Group (1999)	
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/ZV/	NPL30	Thornberry, N.A., "Caspases: key mediators of apoptosis," Chem. Biol. 5:R97-R103, Current Biology Ltd. (1998)	

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/ZV/	NPL31	Thornberry, N.A., "The caspase family of cysteine proteases," <i>Brit. Med. Bull.</i> 53:478-490, Oxford University Press (1997)		
/ZV/	NPL32	Vaishnaw, A.K. et al., "The molecular basis for apoptotic defects in patients with CD95 (Fas/Apo-1) mutations," J. Clin. Invest. 103:355-363, The American Society for Clinical Investigation Inc. (1999)		
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/ZV/	NPL37	Zhou, T. et al., "Bisindolylmaleimide VIII facilitates Fas-mediated apoptosis and inhibits cell-mediated autoimmune diseases," Nat. Med. 5:42-48, Nature America Inc. (1999)		
/ZV/	NPL38	Zou, C. et al., "Combined effect of chemopreventive agent N-(4-hydroxyphenyl) retinamide (4-HPR) and γ-radiation on bladder cancer cell lines," <i>Int. J. Oncol.</i> 13:1037-1041, D. A. Spandidos (1998)		
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	NPL40			

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